

ABCC11 -----MTR KRTYWPENSS GGLVNRGIDL...GDDWUSGLIY KTYTLODGP...SQQRNBPAP GRAAAPPWGK YDAALRTWIP FRPKPRFPAP QPLDNAGLFS
ABCC12 -----MTR KRTYWPENSS GGLVNRGIDL...GDDWUSGLIY KTYTLODGP...SQQRNBPAP GRAAAPPWGK YDAALRTWIP FRPKPRFPAP QPLDNAGLFS
ABCC5 MKDIDIGKEY IIPSPGYRSV RERTSTSGTH RDREDSKFR TRPLECODAL ETAARABGLS LDASHMSQLR ILDEEHKPKG YHHGLSALKP IRTTSKHQ.. HPVDNAGLFS

ABCC11 YLTVSWLTP...MIQSLRSRL DENTIPPLSV HDASDNVQR LRLWEEVVS RRGIEKASVL LVMLRFQTR LIFDALLGIC FCIASVLGPI LIIPKILEYS BEOLGNVWHG
ABCC12 FATSWLTPV...MVKGYRQL TDTLPLST YDSSDNTAKR FRVLWDEVA RVGPEKASLS HVWKFQTR VLMDIVANIL CIIMAAIGPV ILIHQILQOT ERTSGKWWG
ABCC5 CMTFSWLSL ARVAHKKGEL SMEDVMSLSK HESSDVNCR LERLWQBELN EVGPDAAASLR RVWIFQTR LILSIVCLMI TOLAGFSGPA FMVKHLELYT QATESNLQYS

ABCC11 VGLCFALFSL ECVKSLSPSS SHIINORTAI RFRAAVSSFA FEKLIOFKSV IHITSGEAIS FFTGDVNYLF EGVCYGPLVL ITCASLVICS ISSYFIIGYT AFIALCYLL
ABCC12 IGICIALPAT ETKVFFWAL AWAINYRTAI RLKVALSTLV FENLVSFKTL THISVEVLN ILSSDSYSLF EAALFCPLPA TIPILMVFA AYAFFIIGPT ALIGISVYVI
ABCC5 LLLVLGLLIT EIVRSWSLAL TWALNYRTGV RLRGAILTMA FKILKILKNI KEKSLGELIN ICSDNGQRMF EAAAVGSLLA GGPVAILGM IYNVILGPT GFLGSAFVIL

ABCC11 VFPLAVFTR MAVKAQHHS EVSDQIRVT SEVLTCIKLI KWTWEKPPA KIIEDLRKE RKLEKCGVL QSLTSITLFI IPTVATAVW LIHTSLKLKL TASMAFSMLA
ABCC12 FIPVQMFNAK LNSAFRRSAI LVTDKRVTQM NEFLTICIRLI KWAYEKSFT NTIODIRRE RKLEKAGFV QSGNSALAPI VSTIAVLTL SCHILRRKL TAPVAFSVIA
ABCC5 FYFAMMFASR LTAFFRRKCV AATDERVQKM NEVLTIKFI KWAYWKAFS OSVQKIREEE RRILEKAGYF QGITVGVAPI VVIASVUTF SVHMTLGFDL TAAQFTVVT

ABCC11 SLMLRLSVF FVPIAVKGLT NKSASVMRFK KFPLQSPVF YVQTIQDPSK ALVFEEATLS WQ.....QT CPGIV..... NGAL EL...ERNGH ASEGTRPRD
ABCC12 MFNVWKFSIA ILPFSIRAMA EANVSIRRMK KILIDKSPPS YITQEDPDPT VLLILANATLT WEHEASRKST PKKLO..... NQKR HLCKKORSEA YSERSPPAKG
ABCC5 VFNMTFALK VTPFSVKSLS EASVAVDRFK SLFLMEEVHM IKNKEASPHI KIEMKNATLA WDSHSSIQN SPKLTPKMKK DKRASRGKKE KVRQLORTEH QAVLAEOKGH

ABCC11 AL.....G PEEGNS... ..LGPEL HKINLVVSKG MMLGVCGNTG SGKSLLSAL LEEMHLEGS VGVQGSLAYV POQAWIVSGN IRENILMGA YD.....KA
ABCC12 AT.....G PEEQSDS... ..LKSVL HSISFVVRKG KILGTCGNVG SGKSLLAAL LGWQLOQGV VAVNGTLAYV SQQAWIFGN VRENILFGEK YDHQRYOHTV
ABCC5 LLLDSDERPS PEEEGKHII LHLRLQRTL HSIDLEIQEG KLVGICGSVG SGKTSLSAIS LGQWTLLEGS IASGTFAVY AQQAWILNAT LRDNILFGKE YDEERYNSVL

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A

ABCC11 RTPCACCLD MYPFTACLOI GERGLNLSGG QKORISLARA VYSDRQIYLL DDPLSAVDAAH VGKHIFECI KKTLRGKTW LVTHLOQYLE FCGIILLEN GKICENGTHS
ABCC12 RVCGLOKDL NLPYGDLTEI GERGLNLSGG QKORISLARA VYSDRQIYLL DDPLSAVDAAH VGKHIFECI KKTLRGKTW LVTHLOQYLE SCDEVILLE GEICENGTHK
ABCC5 NSCCLRPDLA ILPSSDLTEI GERGANLSGG QKORISLARA LYSDRSIYLL DDPLSAVDAAH VGNHIFNSAI RHLKSKTIV FVTHLOQYLV DCDEVIFMKE GCITERGTHE

.....

B

ABCC11 ELMQKKGKVA QLIQKM..... H..... KEAT SDMLQDTAKI AEKPKVE..SQ ALATSLESL NQNAVPEHQL TOEEMBEES LSWRVYHYI QAAGYVMVSC
ABCC12 ELMEERGRYA KLTHNLGLQ FKDPHELYNA AMVEAFKESP AEREDAGII VLAPNEKDE GKESETGSEF VDTKVPEHQL IQTESPOEGT VTKTYHTYI KASGGVLLSL
ABCC5 ELMNLNGDYA TIFNNLL..LG ETTPVEYNSK KETSGSQKS QDKGPKTGSV KKEKAVKPEE G.....QL VQLEEKQGS VPMVYGVYI QAAGPLAFL

ABCC11 IIFFFVLIV FLTIFFWL SYWLEQSGT NSSRESNGTM ADLGNADNP QLSFYQLVVG LNALLLICVG VCSSGIFTKV TRKASTALHN KLFNKVFRCP MSFDTTIPIG
ABCC12 FTVFLFLMI GAAAFSNWML GLWLDKGRM TCGPOGNRTM CEVGAVLADI GQHVYQWVT ASMVFMVVG VTKGFVFTKT TLMASSLHD TVFDKILKSP MSFDTTPTG
ABCC5 VIMALFMLNV GSTAFSTWML SYWIKQSGN TTVTRNETS VS..DSMKDNP HMQYASIIYA LSWAVMLILK AIRGVFVKG TLRASSRLHD ELFRILRSP MKFFDTTPTG

ABCC11 RLNCFAGDL EOLDQLPFI SEQFLVLSLM VIAVLIVSV LSPYILLMGA IIMVICFIY MPKKAIGVF KRLNYSRSP LFSHILNSLQ GLSSIHVYK TEDFTSQFKR
ABCC12 RLNRFSKDM DELDVLRFH AENFLQOFM VVFLVILAA VFPVLLVVA SLAYGFFILL RIFHRGVQEL KKVENVSRSP WFTHITSSMQ GLGIIHAYGK KESCITY...
ABCC5 RILNRFSKDM DEVDRVLPFQ AEMFIQNVIL VFPCVGMVAG VFPWFLVAVG PLVILFSLVH IVSRVLIREL KRLDNITQSP FLSHITSSIQ GLATTHAYNK QGEFLHRYQE

ABCC11 LTAQNNVLL LFLSSTRMA LRLEIMTNLV TLAVALFVAF GISSTPYFVK VMAYNIVLQ ASSFOQTARI GLETEAQTA VERILOVMKM CVSEAPLHME GTSCPGWPQ
ABCC12HLL YENCALRWA LRMDVLMNLL TTFVALLVTL SFSSISTSSK GLSLSYIIQL SGLLOVCVRT GTETOAKETS VELLREYIST CVPECTHPLK VGTCPDWPS
ABCC5 LLDNDQAPFF LFTCAMRWLA VRLDLISIAL ITTGLMIVL MHGQIPPAVA GLAISYAVQL TGLFQFTVRL ASETAERFVS VERINHIKT LSLEAPARIK NKAPSDWPQ

ABCC11 HGEITFQDYH MKYRDNTPTV LHGINLTIRG HEWGVIGVRT GSGKSLGMA LFRLEVPAG RILIDGVDIC SIGLELRSK LSVIPODPVL LSGTIRFNL PDHRHTDQI
ABCC12 CGEITFRDYQ MYRDNTPLV LDSLNLNIQS GQTVIGVRT GSGKSLGMA LFRLEVPAG TIFIDEVDIC ILSLEDRTK LTVIPODPVL FVGTVRYNLD PFESHTDEML
ABCC5 EGEVTFENAE MRYRENPLV LKKVSFTIKP KEKIGIVGRT GSGKSLGMA LFRLEVPAG CIKIDGVRIS DIGLADLRK LSIIPOEPVL FSGTVRSNLD PENQYTEDQI

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A

ABCC11 WDALERTFELT KAISKFPKKL HTDVVNGGN SVGERQLLC IARAVLRNSK IILIDEATAS IDMETDTLIQ RTIREAFQGC TVLVIAHRVT TVLNCDHILV MNGKQVVEFD
ABCC12 WQVLERTFMR DTMKLPKEL QAVENTGEN SVGERQLLC IARALLRNSK IILIDEATAS MDSKDTLVQ NTKDAFKGC TVLTIAHRLN TVLNCDHILV MNGKQVVEFD
ABCC5 WDALERTHMK ECIAQLPLKL ESEVMENGDN SVGERQLLC IARALLRHCK IILIDEATAA MDTETDLIIQ ETIREAFADC TMLTIAHRLH TVLGSDRIMV LAQGVVEFD

.....

C

ABCC11 RPEVLRKXPG SLFAALMATA TSSLR*---
ABCC12 KPEVLAEXPD SAFAMLIAAE VRL*-----
ABCC5 TSPVLLSND SRYAMFAAA ENKVAVK*

FIGURE 1

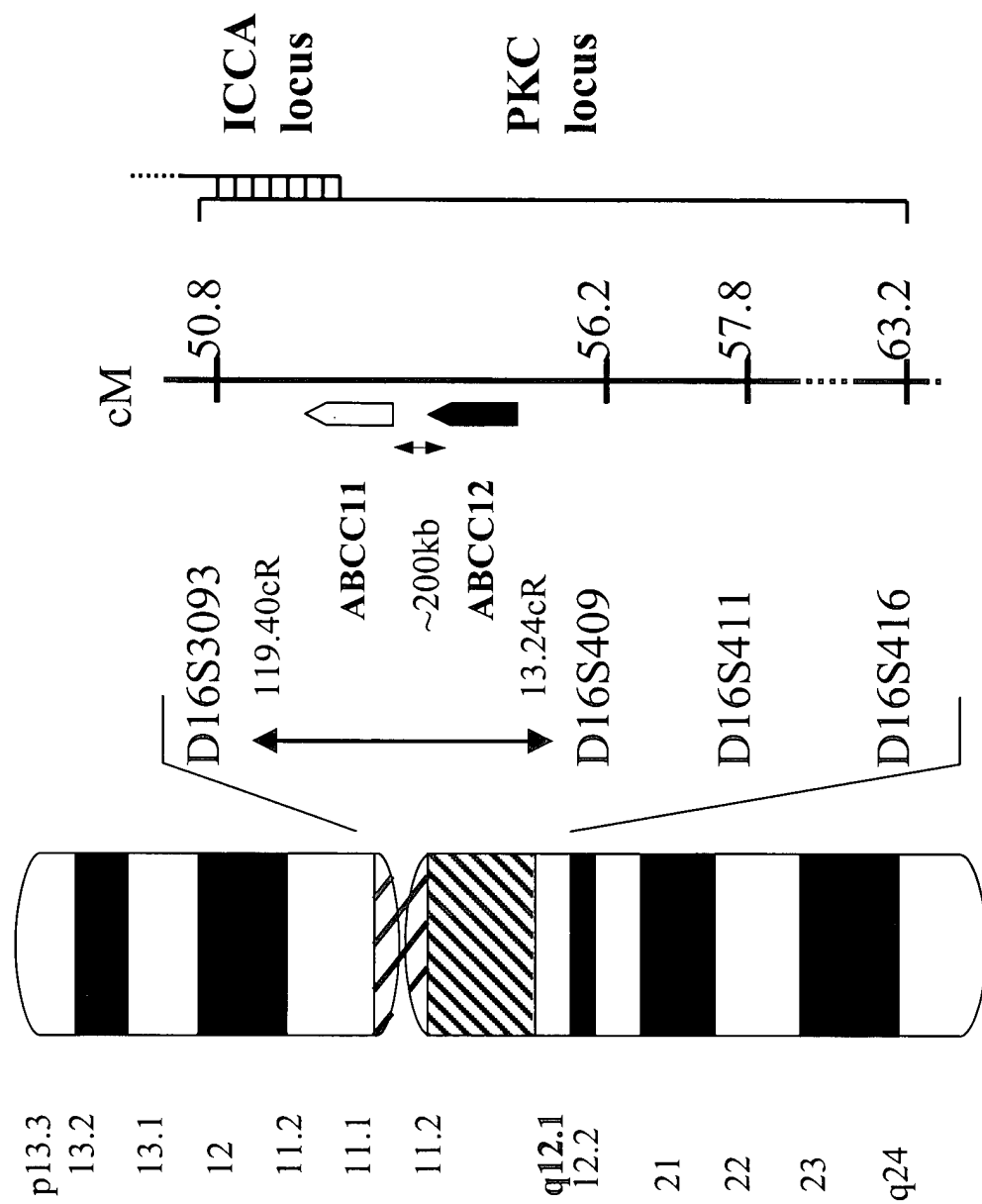


FIGURE 2

ABCC11

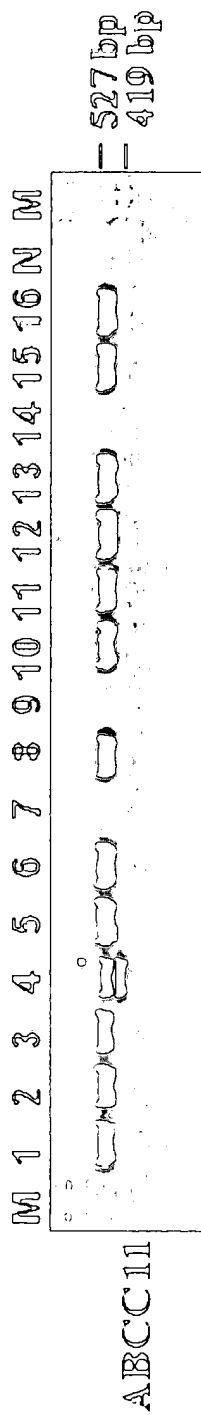


FIGURE 3

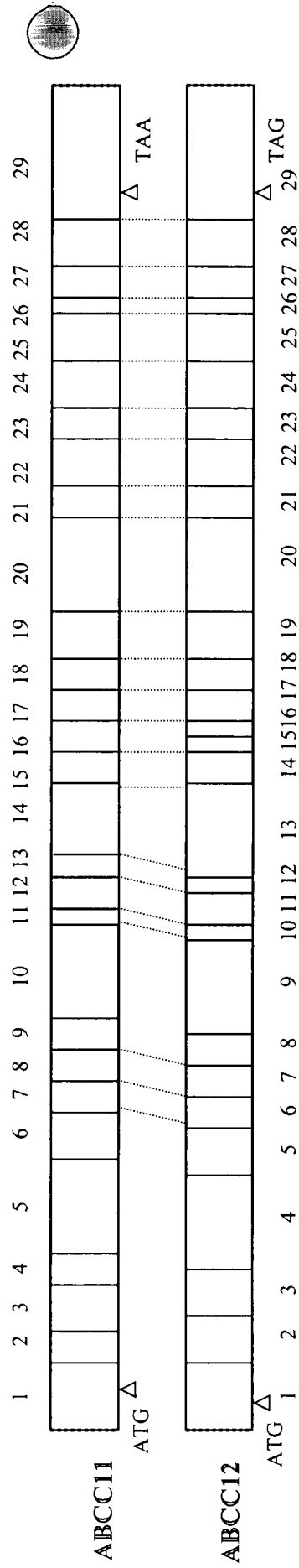


FIGURE 4

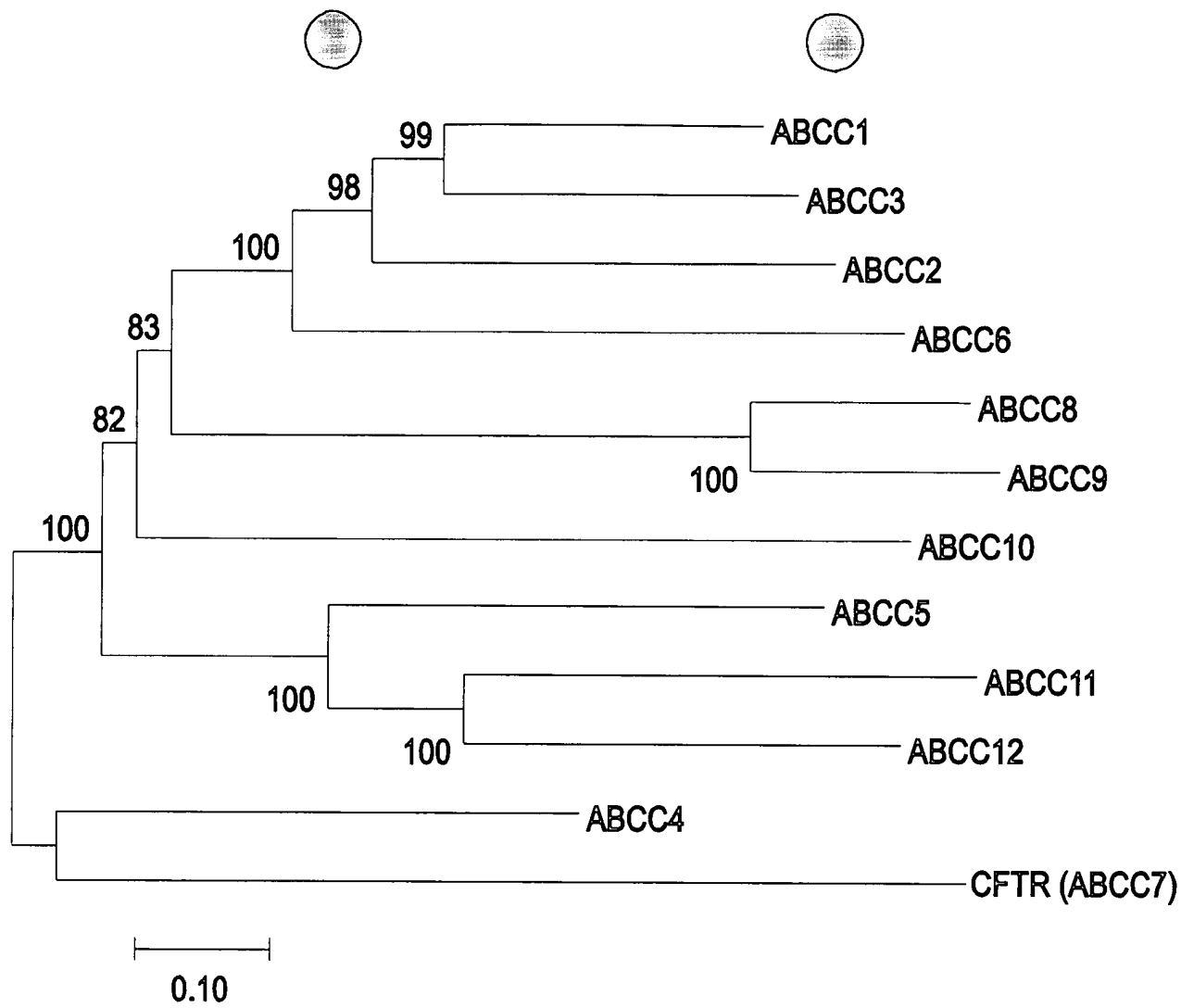


Figure 5